

flexible inner container located in the boiling chamber and containing impure solvent to be distilled, the flexible inner container being made of a flexible material and being movable into different configurations within the boiling chamber, the flexible inner container and the outer container defining a lower space within the boiling chamber, the cover, the flexible inner container and the outer container defining an upper space located above the impure solvent, and a heating device for heating the impure solvent in the flexible inner container to cause the impure solvent to boil and to generate solvent steam in the upper space, the upper space having at least one outlet for directing the solvent steam from the upper space, and a condensing device for receiving the solvent steam from the outlet and for condensing the solvent steam to form pure liquid solvent, wherein the improvement comprises:

a pipe means located between the flexible inner container and the outer container and extending from the lower space to the upper space for transporting solvent steam from the lower space to the upper space and to the outlet to prevent the solvent steam pressure generated in the lower space from lifting of the flexible inner container in the boiling chamber, the solvent steam being generated by heated solvent trapped in the lower space,

the pipe means being positioned inside the outer container defining the boiling chamber,

the pipe means having a first and a second terminal end axially spaced apart from the first terminal end, the first terminal end having an inlet in said lower space for

receiving solvent steam, said inlet being spaced apart from a bottom of the outer container, said second terminal end having an outlet for emitting solvent steam received in said inlet.

Add the following claims:

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7. The solvent distiller according to claim 2 wherein the inlet is the first terminal end of the pipe means, the first terminal end of the pipe means being a free terminal end.

8. The solvent distiller according to claim 2 wherein the second terminal end of the pipe means is a free terminal end.

9. In a solvent distiller for recovery of purified solvent from impure solvent, the impure solvent containing residues of paint, the distiller comprising an outer container defining a boiling chamber, the outer container including an opening, a cover closing the opening, a flexible inner container located in the boiling chamber and containing impure solvent to be distilled, the flexible inner container being made of a flexible material and being movable into different configurations within the boiling chamber, the flexible inner container and the outer container defining a lower space within the boiling chamber, the cover, the flexible inner container and the outer container defining an upper space located above the impure solvent, and a heating device for heating the impure solvent in the flexible inner container to

cause the impure solvent to boil and to generate solvent steam in the upper space, the upper space having at least one outlet for directing the solvent steam from the upper space, and a condensing device for receiving the solvent steam from the outlet and for condensing the solvent steam to form pure liquid solvent, wherein the improvement comprises:

B2 a pipe means located between the flexible inner container and the outer container and extending from the lower space to the upper space for transporting solvent steam from the lower space to the upper space and to the outlet to prevent the solvent steam pressure generated in the lower space from lifting of the flexible inner container in the boiling chamber, the solvent steam being generated by heated solvent trapped in the lower space, the pipe means having an inlet spaced apart from a bottom of the outer container,

the pipe means comprises an elongated profile with holes attached to the outer container between the outer container and the flexible inner container, the profile and the outer container defining a passageway for transporting the solvent steam, generated by heating impure solvent trapped in the lower space, from the lower space to the upper space.

10. The solvent distiller according to claim 9 wherein the elongated profile of the pipe means is V-shaped.

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